

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptal611txm

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

|      |    |        |   |
|------|----|--------|---|
| NEWS | 1  |        | Web Page URLs for STN Seminar Schedule - N. America   |
| NEWS | 2  |        | "Ask CAS" for self-help around the clock  |
| NEWS | 3  | Jun 03 | New e-mail delivery for search results now available  |
| NEWS | 4  | Aug 08 | PHARMAMarketLetter(PHARMAML) - new on STN   |
| NEWS | 5  | Aug 19 | Aquatic Toxicity Information Retrieval (AQUIRE)<br>now available on STN                       |
| NEWS | 6  | Aug 26 | Sequence searching in REGISTRY enhanced   |
| NEWS | 7  | Sep 03 | JAPIO has been reloaded and enhanced  |
| NEWS | 8  | Sep 16 | Experimental properties added to the REGISTRY file  |
| NEWS | 9  | Sep 16 | CA Section Thesaurus available in CAPLUS and CA   |
| NEWS | 10 | Oct 01 | CASREACT Enriched with Reactions from 1907 to 1985  |
| NEWS | 11 | Oct 24 | BEILSTEIN adds new search fields  |
| NEWS | 12 | Oct 24 | Nutraceuticals International (NUTRACEUT) now available on STN                                 |
| NEWS | 13 | Nov 18 | DKILIT has been renamed APOLLIT   |
| NEWS | 14 | Nov 25 | More calculated properties added to REGISTRY  |
| NEWS | 15 | Dec 04 | CSA files on STN  |
| NEWS | 16 | Dec 17 | PCTFULL now covers WP/PCT Applications from 1978 to date                                      |
| NEWS | 17 | Dec 17 | TOXCENTER enhanced with additional content  |
| NEWS | 18 | Dec 17 | Adis Clinical Trials Insight now available on STN   |
| NEWS | 19 | Jan 29 | Simultaneous left and right truncation added to COMPENDEX,<br>ENERGY, INSPEC                  |
| NEWS | 20 | Feb 13 | CANCERLIT is no longer being updated  |
| NEWS | 21 | Feb 24 | METADEx enhancements  |
| NEWS | 22 | Feb 24 | PCTGEN now available on STN   |
| NEWS | 23 | Feb 24 | TEMA now available on STN   |
| NEWS | 24 | Feb 26 | NTIS now allows simultaneous left and right truncation  |
| NEWS | 25 | Feb 26 | PCTFULL now contains images   |
| NEWS | 26 | Mar 04 | SDI PACKAGE for monthly delivery of multifile SDI results                                     |
| NEWS | 27 | Mar 20 | EVENTLINE will be removed from STN  |
| NEWS | 28 | Mar 24 | PATDPAFULL now available on STN   |
| NEWS | 29 | Mar 24 | Additional information for trade-named substances without<br>structures available in REGISTRY |
| NEWS | 30 | Apr 11 | Display formats in DGENE enhanced   |
| NEWS | 31 | Apr 14 | MEDLINE Reload  |
| NEWS | 32 | Apr 17 | Polymer searching in REGISTRY enhanced  |
| NEWS | 33 | Jun 13 | Indexing from 1947 to 1956 added to records in CA/CAPLUS                                      |
| NEWS | 34 | Apr 21 | New current-awareness alert (SDI) frequency in<br>WPIDS/WPINDEX/WPIX                          |
| NEWS | 35 | Apr 28 | RDISCLOSURE now available on STN  |
| NEWS | 36 | May 05 | Pharmacokinetic information and systematic chemical names<br>added to PHAR                    |
| NEWS | 37 | May 15 | MEDLINE file segment of TOXCENTER reloaded  |

NEWS 38 May 15 Supporter information for ENCOMPAT and ENCOMPLIT updated  
NEWS 39 May 16 CHEMREACT will be removed from STN  
NEWS 40 May 19 Simultaneous left and right truncation added to WSCA  
NEWS 41 May 19 RAPRA enhanced with new search field, simultaneous left and right truncation  
NEWS 42 Jun 06 Simultaneous left and right truncation added to CBNB  
NEWS 43 Jun 06 PASCAL enhanced with additional data  
NEWS 44 Jun 20 2003 edition of the FSTA Thesaurus is now available  
NEWS 45 Jun 25 HSDB has been reloaded

NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT  
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 10:14:36 ON 08 JUL 2003

=> file reg

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST  | 0.21             | 0.21          |

FILE 'REGISTRY' ENTERED AT 10:14:41 ON 08 JUL 2003

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 7 JUL 2003 HIGHEST RN 544408-69-7  
DICTIONARY FILE UPDATES: 7 JUL 2003 HIGHEST RN 544408-69-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STN Note 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> file casreact

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.40

0.61

FILE 'CASREACT' ENTERED AT 10:15:00 ON 08 JUL 2003  
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Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications.

FILE CONTENT:1907 - 6 Jul 2003 VOL 139 ISS 1

Some records from 1974 to 1991 are derived from the ZIC/VINITI data file and provided by InfoChem and some records are produced using some INPI data from the period prior to 1986.

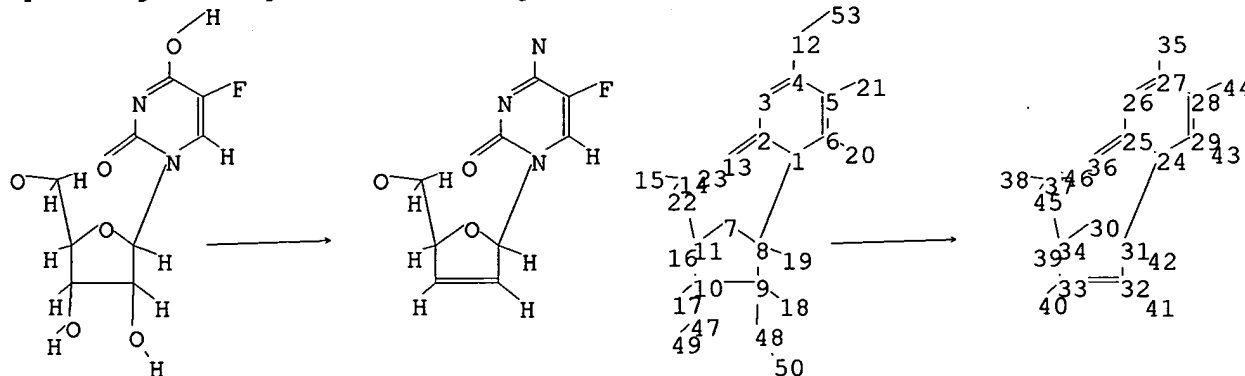
This file contains CAS Registry Numbers for easy and accurate substance identification.

Crossover limits have been increased. See HELP RNCROSSOVER for details.

Structure search limits have been raised. See HELP SLIMIT for the new, higher limits.

=>

Uploading C:\Program Files\Stnexp\Queries\10087112.str



chain nodes :

12 13 14 15 16 17 18 19 20 21 22 23 35 36 37 38 39 40 41 42 43  
44 45 46 47 48 49 50 53

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 24 25 26 27 28 29 30 31 32 33 34

chain bonds :

1-8 2-13 4-12 5-21 6-20 8-19 9-18 9-48 10-17 10-47 11-14 11-16 12-53  
14-15 14-22 14-23 24-31 25-36 27-35 28-44 29-43 31-42 32-41 33-40 34-37  
34-39 37-38 37-45 37-46 47-49 48-50  
ring bonds :  
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-11 8-9 9-10 10-11 24-25 24-29 25-26  
26-27 27-28 28-29 30-31 30-34 31-32 32-33 33-34  
exact/norm bonds :  
1-2 1-6 1-8 2-3 2-13 3-4 4-5 4-12 5-6 7-8 7-11 8-9 9-10 9-48 10-11  
10-47 14-15 24-25 24-29 24-31 25-26 25-36 26-27 27-28 27-35 28-29 30-31  
30-34 31-32 32-33 33-34 37-38  
exact bonds :  
5-21 6-20 8-19 9-18 10-17 11-14 11-16 12-53 14-22 14-23 28-44 29-43  
31-42 32-41 33-40 34-37 34-39 37-45 37-46 47-49 48-50

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS  
19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:Atom 25:Atom 26:Atom  
27:Atom 28:Atom 29:Atom 30:Atom 31:Atom 32:Atom 33:Atom 34:Atom 35:CLASS  
36:CLASS 37:CLASS 38:CLASS 39:CLASS 40:CLASS 41:CLASS 42:CLASS 43:CLASS  
44:CLASS 45:CLASS 46:CLASS 47:CLASS 48:CLASS 49:CLASS 50:CLASS 53:CLASS  
fragments assigned product role:  
containing 24  
fragments assigned reactant/reagent role:  
containing 1

L1 STRUCTURE UPLOADED

=> s l1

SAMPLE SEARCH INITIATED 10:15:34 FILE 'CASREACT'  
SCREENING COMPLETE - 5 REACTIONS TO VERIFY FROM 1 DOCUMENTS

100.0% DONE 5 VERIFIED 0 HIT RXNS 0 DOCS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED VERIFICATIONS: 5 TO 234  
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1 ( 0 REACTIONS)

=> s l1 full

FULL SEARCH INITIATED 10:15:42 FILE 'CASREACT'  
SCREENING COMPLETE - 93 REACTIONS TO VERIFY FROM 8 DOCUMENTS

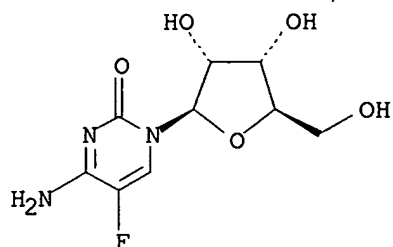
100.0% DONE 93 VERIFIED 2 HIT RXNS 1 DOCS  
SEARCH TIME: 00.00.01

L3 1 SEA SSS FUL L1 ( 2 REACTIONS)

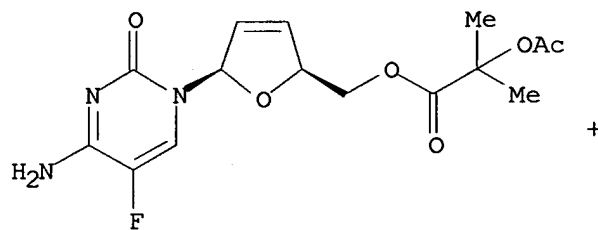
=> d

L3 ANSWER 1 OF 1 CASREACT COPYRIGHT 2003 ACS

RX(6) OF 9 - 2 STEPS

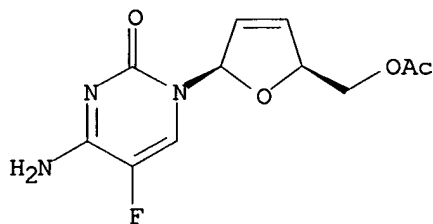


- 1.1.  $\text{Me}_2\text{C}(\text{OAc})\text{COBr}$ ,  
 $\text{AcOEt}$ ,  $\text{MeCN}$   
 1.2.  $\text{KHCO}_3$ ,  $\text{Water}$   
 2.1.  $\text{CuSO}_4$ ,  $\text{Zn}$ ,  $\text{Water}$   
 2.2.  $\text{AcOH}$ ,  $\text{DMF}$   
 2.3.  $\text{K}_2\text{CO}_3$ ,  $\text{Water}$



85%

RX(6) OF 9 - 2 STEPS



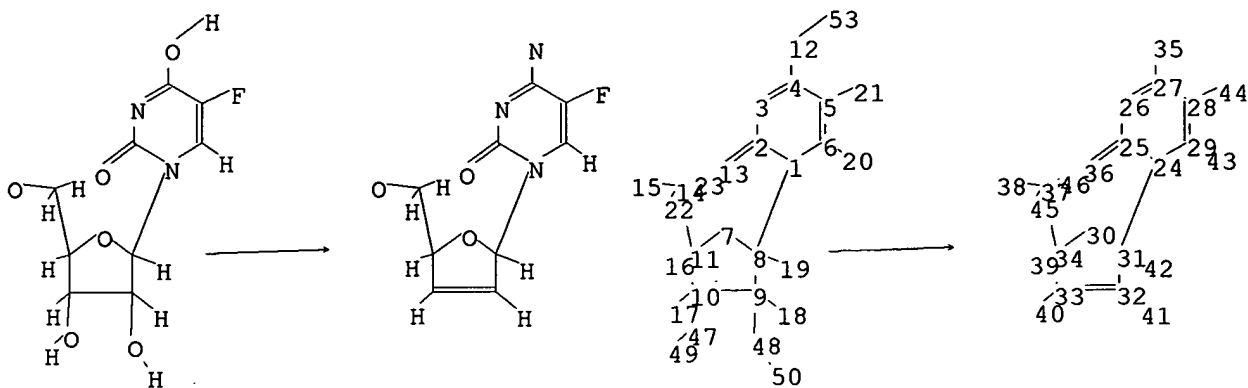
85%

REF: PCT Int. Appl., 2002070533, 12 Sep 2002

NOTE: 1) optimization study, combined yield of 88%, 2) optimized on solvent, first stage prepn. of reducing agent

=&gt;

Uploading C:\Program Files\Stnexp\Queries\10087112.str



chain nodes :

12 13 14 15 16 17 18 19 20 21 22 23 35 36 37 38 39 40 41 42 43  
44 45 46 47 48 49 50 53

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 24 25 26 27 28 29 30 31 32 33 34

chain bonds :

1-8 2-13 4-12 5-21 6-20 8-19 9-18 9-48 10-17 10-47 11-14 11-16 12-53  
14-15 14-22 14-23 24-31 25-36 27-35 28-44 29-43 31-42 32-41 33-40 34-37  
34-39 37-38 37-45 37-46 47-49 48-50

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-11 8-9 9-10 10-11 24-25 24-29 25-26  
26-27 27-28 28-29 30-31 30-34 31-32 32-33 33-34

exact/norm bonds :

1-2 1-6 1-8 2-3 2-13 3-4 4-5 4-12 5-6 7-8 7-11 8-9 9-10 9-48 10-11  
10-47 14-15 24-25 24-29 24-31 25-26 25-36 26-27 27-28 27-35 28-29 30-31  
30-34 31-32 32-33 33-34 37-38

exact bonds :

5-21 6-20 8-19 9-18 10-17 11-14 11-16 12-53 14-22 14-23 28-44 29-43  
31-42 32-41 33-40 34-37 34-39 37-45 37-46 47-49 48-50

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS  
19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:Atom 25:Atom 26:Atom  
27:Atom 28:Atom 29:Atom 30:Atom 31:Atom 32:Atom 33:Atom 34:Atom 35:CLASS  
36:CLASS 37:CLASS 38:CLASS 39:CLASS 40:CLASS 41:CLASS 42:CLASS 43:CLASS  
44:CLASS 45:CLASS 46:CLASS 47:CLASS 48:CLASS 49:CLASS 50:CLASS 53:CLASS

fragments assigned product role:

containing 24

fragments assigned reactant/reagent role:

containing 1

L4 STRUCTURE UPLOADED

10/087,112 Thomas McKenzie

=> s 14 full

FULL SEARCH INITIATED 10:17:00 FILE 'CASREACT'

SCREENING COMPLETE - 31 REACTIONS TO VERIFY FROM 10 DOCUMENTS

100.0% DONE 31 VERIFIED 0 HIT RXNS 0 DOCS

SEARCH TIME: 00.00.01

L5 0 SEA SSS FUL L4 ( 0 REACTIONS)

=> logoff

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:.

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

198.95

199.56

STN INTERNATIONAL LOGOFF AT 10:17:16 ON 08 JUL 2003

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptal611txm

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 SEP 09 CA/CAPLUS records now contain indexing from 1907 to the  
present  
NEWS 4 AUG 05 New pricing for EUROPATFULL and PCTFULL effective  
August 1, 2003  
NEWS 5 AUG 13 Field Availability (/FA) field enhanced in BEILSTEIN  
NEWS 6 AUG 18 Data available for download as a PDF in RDISCLOSURE  
NEWS 7 AUG 18 Simultaneous left and right truncation added to PASCAL  
NEWS 8 AUG 18 FROSTI and KOSMET enhanced with Simultaneous Left and Right  
Truncation  
NEWS 9 AUG 18 Simultaneous left and right truncation added to ANABSTR  
NEWS 10 SEP 22 DIPPR file reloaded  
NEWS 11 SEP 25 INPADOC: Legal Status data to be reloaded  
NEWS 12 SEP 29 DISSABS now available on STN  
NEWS 13 OCT 10 PCTFULL: Two new display fields added  
NEWS 14 OCT 21 BIOSIS file reloaded and enhanced  
NEWS 15 OCT 28 BIOSIS file segment of TOXCENTER reloaded and enhanced  
  
NEWS EXPRESS NOVEMBER 14 CURRENT WINDOWS VERSION IS V6.01c, CURRENT  
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003

|            |   |
|------------|---|
| NEWS HOURS | STN Operating Hours Plus Help Desk Availability         |
| NEWS INTER | General Internet Information                            |
| NEWS LOGIN | Welcome Banner and News Items                           |
| NEWS PHONE | Direct Dial and Telecommunication Network Access to STN |
| NEWS WWW   | CAS World Wide Web Site (general information)           |

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 09:10:11 ON 24 NOV 2003

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 09:10:25 ON 24 NOV 2003

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STRUCTURE FILE UPDATES: 23 NOV 2003 HIGHEST RN 620098-11-5

DICTIONARY FILE UPDATES: 23 NOV 2003 HIGHEST RN 620098-11-5

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

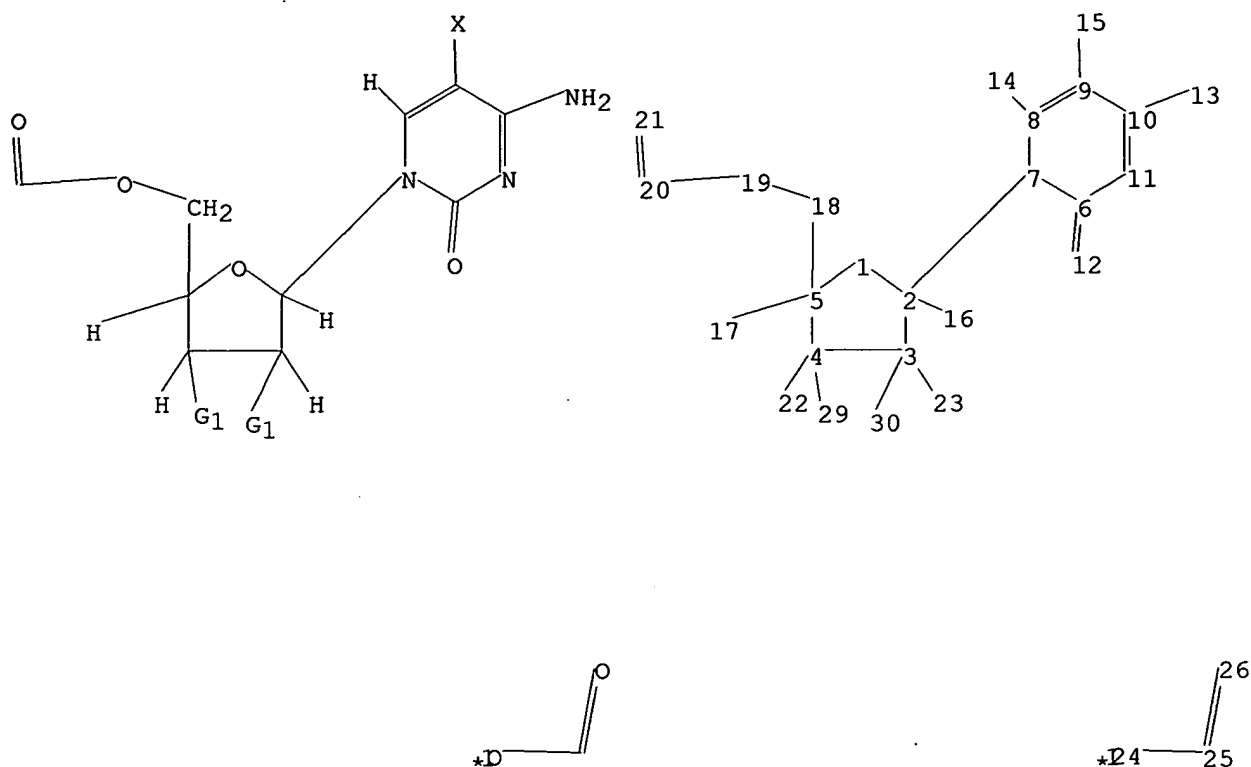
Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>

Uploading C:\Program Files\Stnexp\Queries\Claim25.str





chain nodes :

12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 29 30

ring nodes :

1 2 3 4 5 6 7 8 9 10 11

chain bonds :

2-7 2-16 3-23 3-30 4-22 4-29 5-17 5-18 6-12 8-14 9-15 10-13 18-19  
19-20 20-21 24-25 25-26

ring bonds :

1-2 1-5 2-3 3-4 4-5 6-7 6-11 7-8 8-9 9-10 10-11

exact/norm bonds :

1-2 1-5 2-3 2-7 3-4 3-30 4-5 4-29 6-7 6-11 6-12 7-8 8-9 9-10 10-11  
10-13 19-20 20-21 24-25 25-26

exact bonds :

2-16 3-23 4-22 5-17 5-18 8-14 9-15 18-19

G1:X, [\*1]

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS  
19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS  
29:CLASS 30:CLASS

L1        STRUCTURE UPLOADED

=> s l1

SAMPLE SEARCH INITIATED 09:10:45 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED -        44 TO ITERATE

100.0% PROCESSED        44 ITERATIONS  
SEARCH TIME: 00.00.01

1 ANSWERS

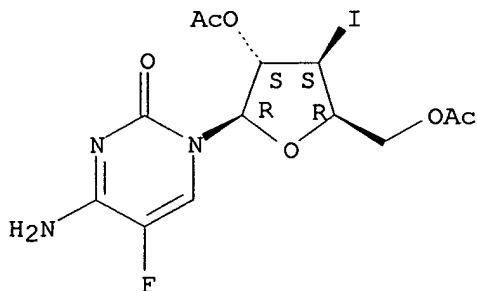
FULL FILE PROJECTIONS:    ONLINE    \*\*COMPLETE\*\*  
                              BATCH    \*\*COMPLETE\*\*  
PROJECTED ITERATIONS:        483 TO        1277  
PROJECTED ANSWERS:            1 TO        80

L2                1 SEA SSS SAM L1

=> d scan

L2    1 ANSWERS    REGISTRY    COPYRIGHT 2003 ACS on STN  
IN    2(1H)-Pyrimidinone, 4-amino-1-(2,5-di-O-acetyl-3-deoxy-3-iodo-β-D-  
      xylofuranosyl)-5-fluoro- (9CI)  
MF    C13 H15 F I N3 O6

Absolute stereochemistry.

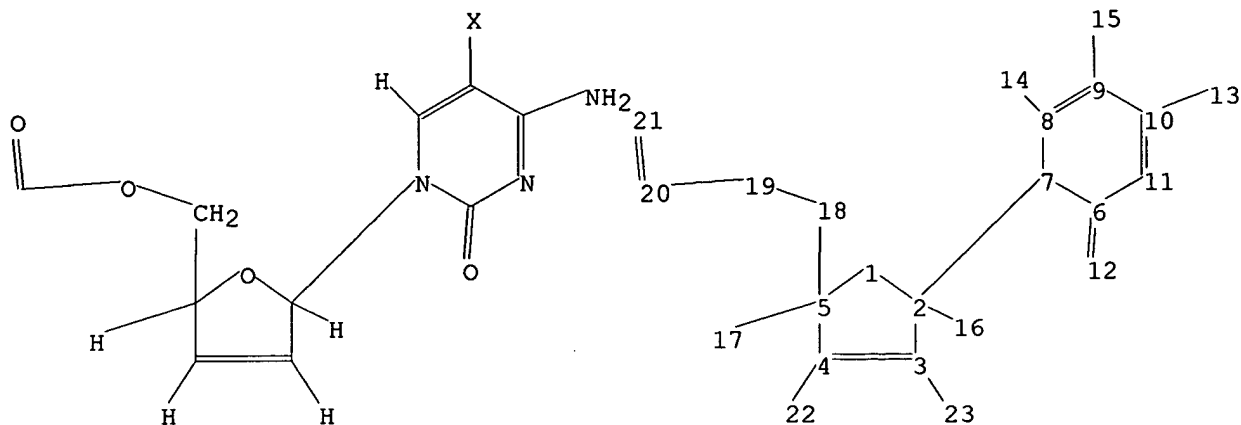


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

ALL ANSWERS HAVE BEEN SCANNED

=>

Uploading C:\Program Files\Stnexp\Queries\claim 27.str



chain nodes :

12 13 14 15 16 17 18 19 20 21 22 23

ring nodes :

1 2 3 4 5 6 7 8 9 10 11

chain bonds :

2-7 2-16 3-23 4-22 5-17 5-18 6-12 8-14 9-15 10-13 18-19 19-20 20-21

ring bonds :

1-2 1-5 2-3 3-4 4-5 6-7 6-11 7-8 8-9 9-10 10-11

exact/norm bonds :

1-2 1-5 2-3 2-7 3-4 4-5 6-7 6-11 6-12 7-8 8-9 9-10 10-11 10-13 19-20 20-21

exact bonds :

2-16 3-23 4-22 5-17 5-18 8-14 9-15 18-19

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom

11:Atom 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS

19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS

L3 STRUCTURE UPLOADED

=> s 13

SAMPLE SEARCH INITIATED 09:12:29 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 148 TO ITERATE

100.0% PROCESSED 148 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 2231 TO 3689

PROJECTED ANSWERS: 0 TO 0

L4 0 SEA SSS SAM L3

=> s l1 full

FULL SEARCH INITIATED 09:12:39 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 898 TO ITERATE

100.0% PROCESSED 898 ITERATIONS  
SEARCH TIME: 00.00.01

31 ANSWERS

L5 31 SEA SSS FUL L1

=> s l3 full

FULL SEARCH INITIATED 09:12:47 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 2950 TO ITERATE

100.0% PROCESSED 2950 ITERATIONS  
SEARCH TIME: 00.00.01

6 ANSWERS

L6 6 SEA SSS FUL L3

=> file caold

COST IN U.S. DOLLARS

SINCE FILE  
ENTRY

TOTAL  
SESSION

FULL ESTIMATED COST

297.10

297.31

FILE 'CAOLD' ENTERED AT 09:12:57 ON 24 NOV 2003  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
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FILE COVERS 1907-1966

FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

This file supports REGlstry for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

=> s (l5 or l6)

0 L5

0 L6

L7 0 (L5 OR L6)

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE  
ENTRY

TOTAL  
SESSION

FULL ESTIMATED COST

0.40

297.71

FILE 'CAPLUS' ENTERED AT 09:13:27 ON 24 NOV 2003  
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FILE COVERS 1907 - 24 Nov 2003 VOL 139 ISS 22  
FILE LAST UPDATED: 23 Nov 2003 (20031123/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s (l5 and l6)
      26 L5
      4 L6
L8      3 (L5 AND L6)
```

```
=> s (l5 or l6)
      26 L5
      4 L6
L9      27 (L5 OR L6)
```

```
=> s l9 not l3
```

**REGISTRY INITIATED**

Substance data SEARCH and crossover from CAS REGISTRY in progress...  
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 09:14:05 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 148 TO ITERATE

100.0% PROCESSED 148 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
                          BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 2231 TO 3689  
PROJECTED ANSWERS: 0 TO 0

L10 0 SEA SSS SAM L3

L11 0 L10

L12 27 L9 NOT L11

```
=> s l9 not l8
```

L13

24 L9 NOT L8

=&gt; d l8 cbib pi hitstr

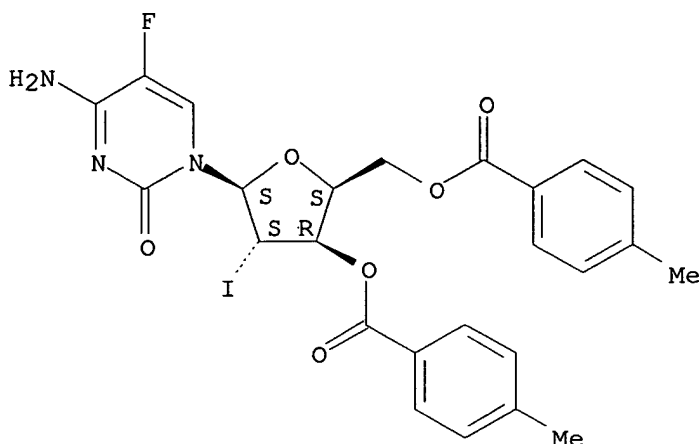
L8 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS on STN

2003:837102 Document No. 139:323752 Method for synthesizing

$\beta$ -L-fluoro-2',3'-didehydrocytidine ( $\beta$ -L-FD4C). Kowalczyk, Bo; Zhao, Li; Schure, Ralph M.; Dunkle, Lisa (Achillion Pharmaceuticals, Inc., USA). PCT Int. Appl. WO 2003087119 A1 20031023, 36 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2003-US11445 20030411. PRIORITY: US 2002-PV372006 20020412.

| PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE     |
|--|------|----------|-----------------|----------|
| WO 2003087119  | A1   | 20031023 | WO 2003-US11445 | 20030411 |
| <p>W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM</p> <p>RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG</p> |      |          |                 |          |
| <p>IT <b>612805-64-8P 612805-65-9P</b></p> <p>RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)</p> <p>(method for large-scale production of <math>\beta</math>-L-fluoro-2',3'-didehydrocytidine (<math>\beta</math>-L-FD4C) via coupling with fluorocytosine and reductive elimination reactions)</p>   |      |          |                 |          |
| <p>RN 612805-64-8 CAPLUS</p>   |      |          |                 |          |
| <p>CN 2(1H)-Pyrimidinone, 4-amino-1-[2-deoxy-2-iodo-3,5-bis-O-(4-methylbenzoyl)-<math>\beta</math>-L-xylofuranosyl]-5-fluoro- (9CI) (CA INDEX NAME)</p>  |      |          |                 |          |

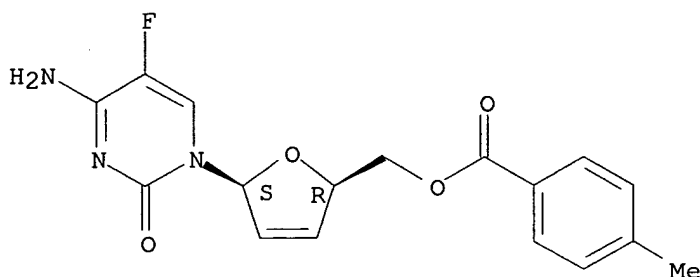
Absolute stereochemistry.



RN 612805-65-9 CAPLUS

CN Benzoic acid, 4-methyl-, [(2R,5S)-5-(4-amino-5-fluoro-2-oxo-1(2H)-pyrimidinyl)-2,5-dihydro-2-furanyl]methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> d 18 cbib pi hitstr 2-3

L8 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS on STN

2002:695994 Document No. 137:217180 Method for the synthesis of 2',3'-dideoxy-2',3'-didehydronucleosides. Jin, Fuqiang; Confalone, Pasquale N. (Pharmasset Ltd., USA). PCT Int. Appl. WO 2002070533 A2 20020912, 180 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2002-US6460 20020301. PRIORITY: US 2001-PV272441 20010301; US 2001-PV272434 20010301.

| PATENT NO.       | KIND | DATE     | APPLICATION NO. | DATE     |
|------------------|------|----------|-----------------|----------|
| PI WO 2002070533 | A2   | 20020912 | WO 2002-US6460  | 20020301 |

WO 2002070533 A3 20021219

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2002198224 A1 20021226 US 2002-87112 20020301

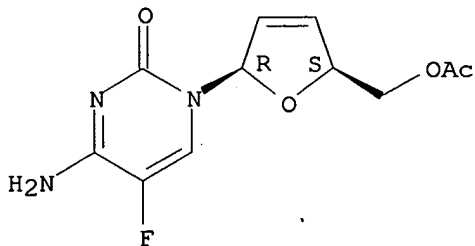
IT 221156-23-6P 457065-01-9P 457065-03-1P  
457065-09-7P

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(synthesis and solvent effect of 2',3'-dideoxy-2',3'-didehydronucleosides via halo-acetylation and reductive elimination reactions)

RN 221156-23-6 CAPLUS

CN Cytidine, 2',3'-didehydro-2',3'-dideoxy-5-fluoro-, 5'-acetate (9CI) (CA INDEX NAME)

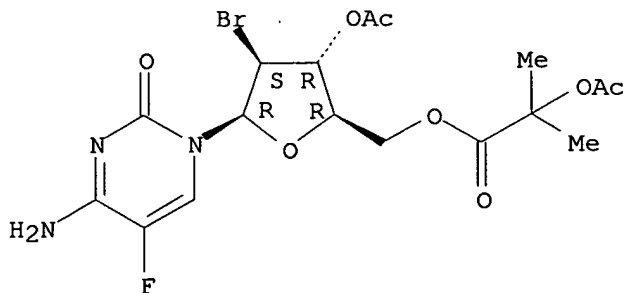
Absolute stereochemistry.



RN 457065-01-9 CAPLUS

CN 2(1H)-Pyrimidinone, 1-[3-O-acetyl-5-O-[2-(acetyloxy)-2-methyl-1-oxopropyl]-2-bromo-2-deoxy-beta-D-arabinofuranosyl]-4-amino-5-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



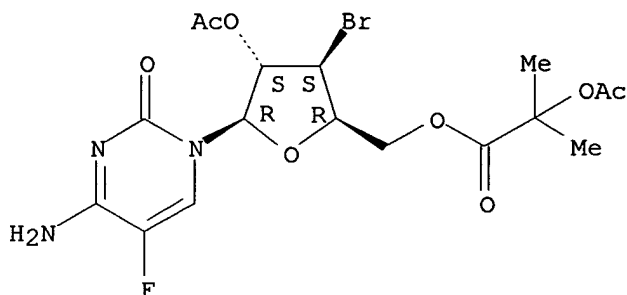
RN 457065-03-1 CAPLUS

CN 2(1H)-Pyrimidinone, 1-[2-O-acetyl-5-O-[2-(acetyloxy)-2-methyl-1-oxopropyl]-3-bromo-3-deoxy-beta-D-xylofuranosyl]-4-amino-5-fluoro- (9CI) (CA INDEX NAME)



NAME)

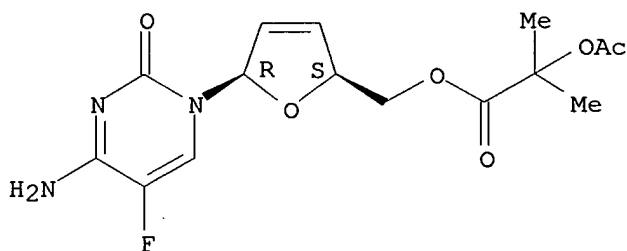
Absolute stereochemistry.



RN 457065-09-7 CAPLUS

CN Cytidine, 2',3'-dideoxy-2',3'-dideoxy-5-fluoro-, 5'-[2-(acetyloxy)-2-methylpropanoate] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 74595-08-7P 107232-40-6P

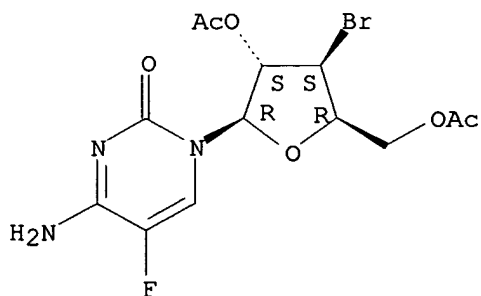
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(synthesis and solvent effect of 2',3'-dideoxy-2',3'-didehydronucleosides via halo-acetylation and reductive elimination reactions)

RN 74595-08-7 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-1-(2,5-di-O-acetyl-3-bromo-3-deoxy-β-D-xylofuranosyl)-5-fluoro- (9CI) (CA INDEX NAME)

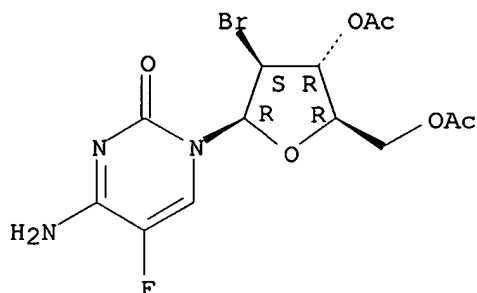
Absolute stereochemistry.



RN 107232-40-6 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-1-(3,5-di-O-acetyl-2-bromo-2-deoxy- $\beta$ -D-arabinofuranosyl)-5-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L8 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS on STN

1999:1283 Document No. 130:139565 Synthesis and comparative evaluation of two antiviral agents:  $\beta$ -L-Fd4C and  $\beta$ -D-Fd4C. Chen, Shu-Hui; Lin, Stanley; King, Ivan; Spinka, Tracy; Dutschman, Ginger E.; Gullen, Elizabeth A.; Cheng, Yung-Chi; Doyle, Terrence W. (Vion Pharmaceuticals, Inc., New Haven, CT, 06511, USA). Bioorganic & Medicinal Chemistry Letters, 8(22), 3245-3250 (English) 1998. CODEN: BMCLE8. ISSN: 0960-894X. OTHER SOURCES: CASREACT 130:139565. Publisher: Elsevier Science Ltd..

IT 219989-60-3P 219989-63-6P

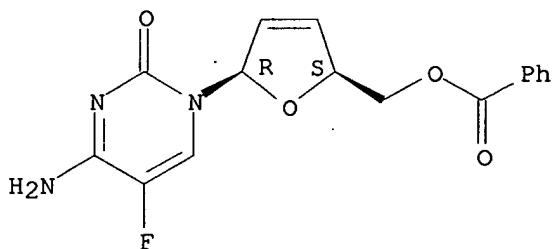
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and comparative evaluation of two antiviral agents,  $\beta$ -L-Fd4C and  $\beta$ -D-Fd4C)

RN 219989-60-3 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-1-[(2R,5S)-5-[(benzoyloxy)methyl]-2,5-dihydro-2-furanyl]-5-fluoro- (9CI) (CA INDEX NAME)

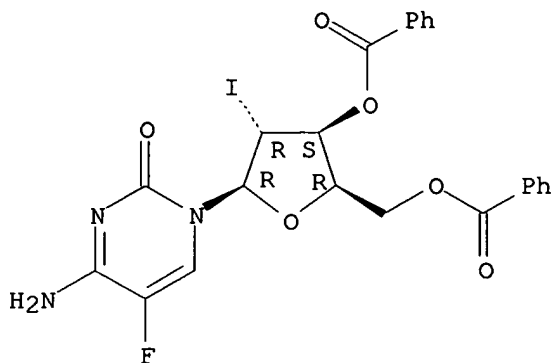
Absolute stereochemistry.



RN 219989-63-6 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-1-[3,5-di-O-benzoyl-2-deoxy-2-iodo- $\beta$ -D-xylofuranosyl]-5-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> d his

(FILE 'HOME' ENTERED AT 09:10:11 ON 24 NOV 2003)

FILE 'REGISTRY' ENTERED AT 09:10:25 ON 24 NOV 2003

L1 STRUCTURE UPLOADED  
 L2 1 S L1  
 L3 STRUCTURE UPLOADED  
 L4 0 S L3  
 L5 31 S L1 FULL  
 L6 6 S L3 FULL

FILE 'CAOLD' ENTERED AT 09:12:57 ON 24 NOV 2003

L7 0 S (L5 OR L6)

FILE 'CAPLUS' ENTERED AT 09:13:27 ON 24 NOV 2003

L8 3 S (L5 AND L6)  
 L9 27 S (L5 OR L6)  
 S L9 NOT L3

FILE 'REGISTRY' ENTERED AT 09:14:04 ON 24 NOV 2003

L10 0 S L3

FILE 'CAPLUS' ENTERED AT 09:14:05 ON 24 NOV 2003

L11 0 S L10  
 L12 27 S L9 NOT L11  
 L13 24 S L9 NOT L8

=> sort l13 py

SORT ENTIRE ANSWER SET? (Y)/N:.

PROCESSING COMPLETED FOR L13

L14 24 SORT L13 PY

=> d l14 1-15 cbib pi hitstr

L14 ANSWER 1 OF 24 CAPLUS COPYRIGHT 2003 ACS on STN

1974:115969 Document No. 80:115969 Antitumor activity of cyclooctidine derivatives. Hoshi, Akio; Kanzawa, Fumihiko; Kureitani, Kazuo; Kanai, Tadashi; Kikugawa, Kiyomi; Ichino, Motonobu (Pharmacol. Div., Natl. Cancer Cent. Res. Inst., Tokyo, Japan). Gann, 64(5), 519-22 (English) 1973.

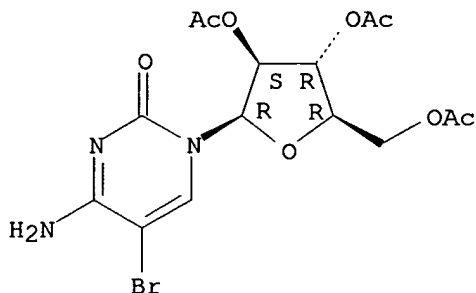
CODEN: GANNA2. ISSN: 0016-450X.

IT **51327-65-2**RL: BIOL (Biological study)  
(leukemia inhibition by)

RN 51327-65-2 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-5-bromo-1-(2,3,5-tri-O-acetyl- $\beta$ -D-arabinofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L14 ANSWER 2 OF 24 CAPLUS COPYRIGHT 2003 ACS on STN

1973:136623 Document No. 78:136623 5-Fluorocytosine nucleosides. Hoffer, Max (Hoffmann-La Roche, Inc.). U.S. US 3721664 19730330, 6 pp. (English). CODEN: USXXAM. APPLICATION: US 1970-6289 19700127.

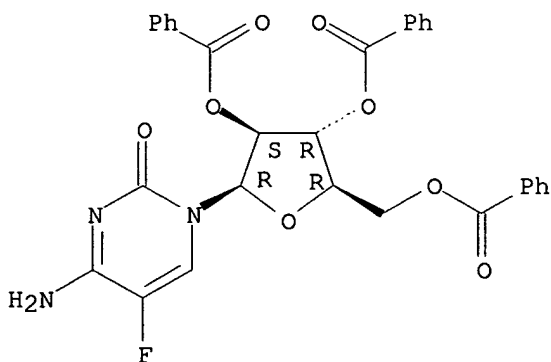
| PATENT NO. | KIND | DATE     | APPLICATION NO. | DATE     |
|------------|------|----------|-----------------|----------|
| US 3721664 | A    | 19730320 | US 1970-6289    | 19700127 |
| US 3868373 | A    | 19750225 | US 1972-317467  | 19721221 |

IT **41108-05-8P 41108-06-9P**RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 41108-05-8 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-5-fluoro-1-(2,3,5-tri-O-benzoyl- $\beta$ -D-arabinofuranosyl)- (9CI) (CA INDEX NAME)

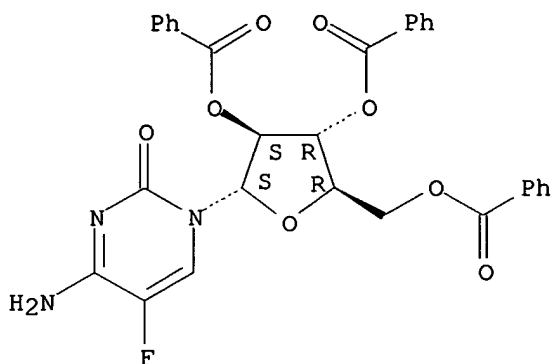
Absolute stereochemistry.



RN 41108-06-9 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-5-fluoro-1-(2,3,5-tri-O-benzoyl- $\alpha$ -D-arabinofuranosyl)- (9CI) (CA INDEX NAME)

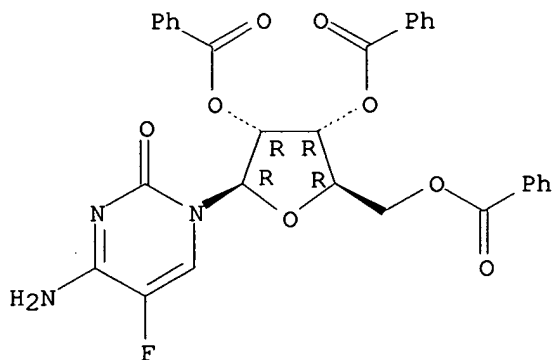
Absolute stereochemistry.



L14 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2003 ACS on STN  
 1975:58072 Document No. 82:58072 Antileukemic 2,2'-anhydro-1- $\beta$ -D-arabinofuranosyl-5-fluorocytosine. Fox, Jack J.; Burchenal, Joseph H.  
 Ger. Offen. DE 2318902 19741024, 15 pp. (German). CODEN: GWXXBX.  
 APPLICATION: DE 1973-2318902 19730414.

|    | PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|----|---|------|----------|-----------------|----------|
| PI | DE 2318902  | A1   | 19741024 | DE 1973-2318902 | 19730414 |
| IT | <b>53294-73-8</b>   |      |          |                 |          |
|    | RL: RCT (Reactant); RACT (Reactant or reagent)<br>(debenzoylation of) |      |          |                 |          |
| RN | 53294-73-8 CAPLUS   |      |          |                 |          |
| CN | Cytidine, 5-fluoro-, 2',3',5'-tribenzoate (9CI) (CA INDEX NAME)       |      |          |                 |          |

Absolute stereochemistry.



L14 ANSWER 4 OF 24 CAPLUS COPYRIGHT 2003 ACS on STN  
 1974:425908 Document No. 81:25908 2,2'-Anhydro-1- $\beta$ -D-arabinofuranosyl-5-fluorocytosine hydrochloride. Hoffer, Max (Hoffmann-La Roche, F., und Co., A.-G.). Ger. Offen. DE 2342930 19740509, 16 pp. (German). CODEN: GWXXBX. APPLICATION: DE 1973-2342930 19730824.

|  | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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|  |            |      |      |                 |      |

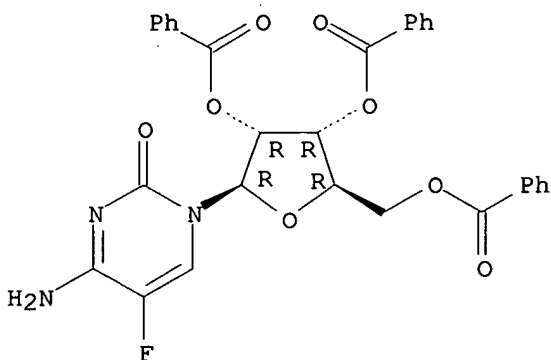
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| PI | DE 2342930  | A1 | 19740509 | DE 1973-2342930 | 19730824 |
|    | US 3899482  | A  | 19750812 | US 1972-286491  | 19720905 |
|    | ZA 7305572  | A  | 19740731 | ZA 1973-5572    | 19730814 |
|    | CA 1002944  | A1 | 19770104 | CA 1973-178912  | 19730815 |
|    | AU 7359440  | A1 | 19750227 | AU 1973-59440   | 19730821 |
|    | CH 582713   | A  | 19761215 | CH 1973-11993   | 19730821 |
|    | JP 49066696 | A2 | 19740627 | JP 1973-98343   | 19730903 |
|    | DD 107039   | C  | 19740705 | DD 1973-173239  | 19730903 |
|    | SE 411760   | B  | 19800204 | SE 1973-11994   | 19730903 |
|    | SE 411760   | C  | 19800522 |                 |          |
|    | BE 804416   | A1 | 19740304 | BE 1973-135279  | 19730904 |
|    | AT 7307683  | A  | 19750315 | AT 1973-7683    | 19730904 |
|    | AT 326837   | B  | 19751229 |                 |          |
|    | GB 1389799  | A  | 19750409 | GB 1973-41484   | 19730904 |
|    | DK 133812   | B  | 19760726 | DK 1973-4876    | 19730904 |
|    | PL 89424    | P  | 19761130 | PL 1973-165020  | 19730904 |
|    | HU 170154   | P  | 19770428 | HU 1973-HO1611  | 19730904 |
|    | NO 139298   | C  | 19790207 | NO 1973-3465    | 19730904 |
|    | NO 139298   | B  | 19781030 |                 |          |
|    | NL 159991   | B  | 19790417 | NL 1973-12201   | 19730904 |
|    | FR 2199468  | A1 | 19740412 | FR 1973-32029   | 19730905 |
|    | DK 7503291  | A  | 19751103 | DK 1975-3291    | 19750718 |

IT **53294-73-8P**RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 53294-73-8 CAPLUS

CN Cytidine, 5-fluoro-, 2',3',5'-tribenzoate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L14 ANSWER 5 OF 24 CAPLUS COPYRIGHT 2003 ACS on STN

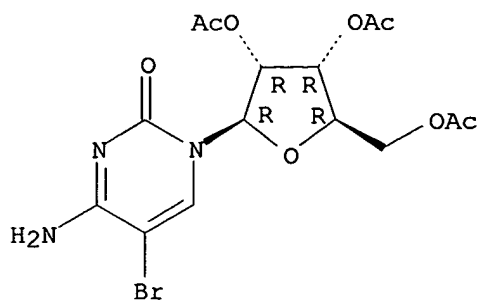
1976:122192 Document No. 84:122192 Synthesis and reaction of some 6-substituted pyrimidine nucleosides. Ueda, Tohru; Inoue, Hideo; Matsuda, Akira (Fac. Pharm. Sci., Hokkaido Univ., Sapporo, Japan). Annals of the New York Academy of Sciences, 255(Chem., Biol., Clin. Uses Nucleoside Analogs), 121-30 (English) 1975. CODEN: ANYAA9. ISSN: 0077-8923.

IT **58629-98-4**RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with sodium cyanide)

RN 58629-98-4 CAPLUS

CN Cytidine, 5-bromo-, 2',3',5'-triacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L14 ANSWER 6 OF 24 CAPLUS COPYRIGHT 2003 ACS on STN

1975:171366 Document No. 82:171366 4-Amino-5-fluoro-2-tri(alkyl)silyloxypyrimidines. Hoffer, Max (Hoffmann-La Roche, Inc., USA). U.S. US 3868373 19750225, 6 pp. Division of U.S. 3,721,664 (CA 78;136623y). (English). CODEN: USXXAM. APPLICATION: US 1972-317467 19721221. PATENT NO. KIND DATE APPLICATION NO. DATE

|    | PATENT NO. | KIND | DATE     | APPLICATION NO. | DATE     |
|----|------------|------|----------|-----------------|----------|
| PI | US 3868373 | A    | 19750225 | US 1972-317467  | 19721221 |
|    | US 3721664 | A    | 19730320 | US 1970-6289    | 19700127 |

IT 41108-05-8P 41108-06-9P

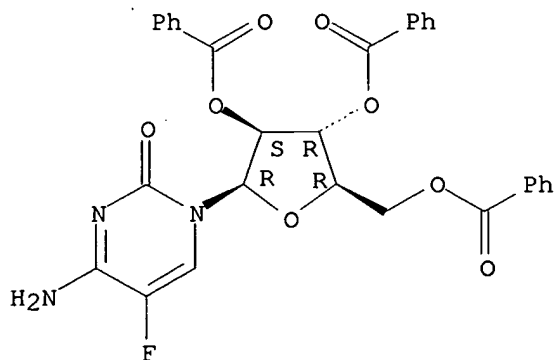
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and saponification of)

RN 41108-05-8 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-5-fluoro-1-(2,3,5-tri-O-benzoyl-beta-D-arabinofuranosyl)- (9CI) (CA INDEX NAME)

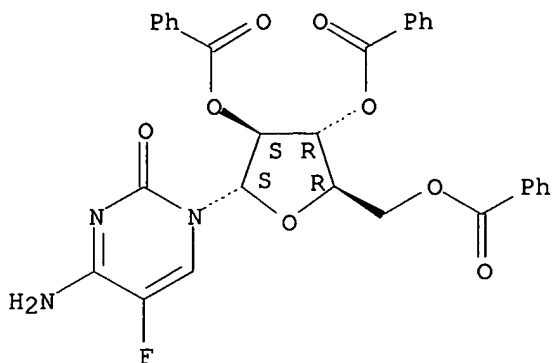
Absolute stereochemistry.



RN 41108-06-9 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-5-fluoro-1-(2,3,5-tri-O-benzoyl-alpha-D-arabinofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L14 ANSWER 7 OF 24 CAPLUS COPYRIGHT 2003 ACS on STN

1979:87844 Document No. 90:87844 2,2'-Anhydro-β-D-arabinofuranosyl-5-fluorocytosine. Fox, Jack J.; Burchenal, Joseph H. (Research Corp., USA). U.S. US 4104461 19780801, 4 pp. (English). CODEN: USXXAM.

APPLICATION: US 1973-351704 19730416.

| PATENT NO. | KIND | DATE     | APPLICATION NO. | DATE     |
|------------|------|----------|-----------------|----------|
| US 4104461 | A    | 19780801 | US 1973-351704  | 19730416 |

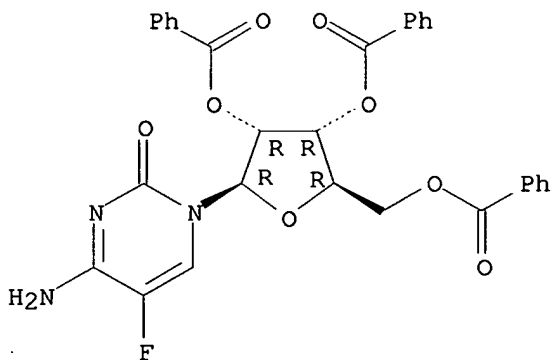
IT 53294-73-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and debenzoylation of)

RN 53294-73-8 CAPLUS

CN Cytidine, 5-fluoro-, 2',3',5'-tribenzoate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L14 ANSWER 8 OF 24 CAPLUS COPYRIGHT 2003 ACS on STN

1979:97335 Document No. 90:97335 Nucleosides. 110. Synthesis and antiherpes virus activity of some 2'-fluoro-2'-deoxyarabinofuranosylpyrimidine nucleosides. Watanabe, Kyoichi A.; Reichman, Uri; Hirota, Kosaku; Lopez, Carlos; Fox, Jack J. (Mem. Sloan-Kettering Cancer Cent., Sloan-Kettering Inst., New York, NY, USA). Journal of Medicinal Chemistry, 22(1), 21-4 (English) 1979. CODEN: JMCMAR. ISSN: 0022-2623.



IT 69124-00-1P 69124-01-2P 69174-28-3P

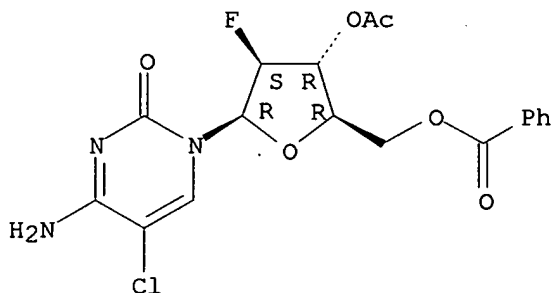
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and saponification of)

RN 69124-00-1 CAPLUS

CN 2(1H)-Pyrimidinone, 1-(3-O-acetyl-5-O-benzoyl-2-deoxy-2-fluoro- $\beta$ -D-arabinofuranosyl)-4-amino-5-chloro- (9CI) (CA INDEX NAME)

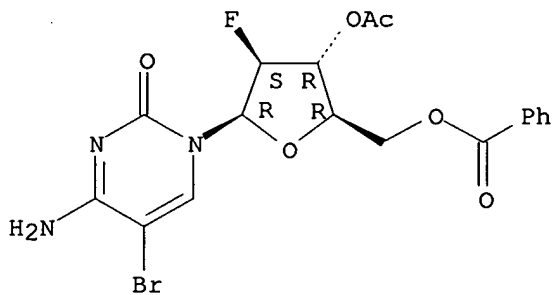
Absolute stereochemistry.



RN 69124-01-2 CAPLUS

CN 2(1H)-Pyrimidinone, 1-(3-O-acetyl-5-O-benzoyl-2-deoxy-2-fluoro- $\beta$ -D-arabinofuranosyl)-4-amino-5-bromo- (9CI) (CA INDEX NAME)

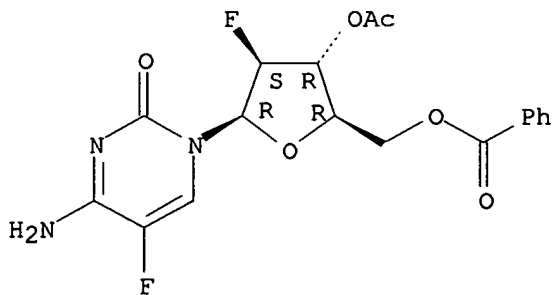
Absolute stereochemistry.



RN 69174-28-3 CAPLUS

CN 2(1H)-Pyrimidinone, 1-(3-O-acetyl-5-O-benzoyl-2-deoxy-2-fluoro- $\beta$ -D-arabinofuranosyl)-4-amino-5-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L14 ANSWER 9 OF 24 CAPLUS COPYRIGHT 2003 ACS on STN

AK  
1980:560956 Document No. 93:160956 Nucleosides. 116. 1-( $\beta$ -D-Xylofuranosyl)-5-fluorocytosines with a leaving group on the 3' position. Potential double-barreled masked precursors of anticancer nucleosides. Watanabe, K. A.; Reichman, U.; Chu, C. K.; Hollenberg, D. H.; Fox, J. J. (Lab. Org. Chem., Sloan-Kettering Inst. Cancer Res., New York, NY, 10021, USA). Journal of Medicinal Chemistry, 23(10), 1088-94 (English) 1980. CODEN: JMCMAR. ISSN: 0022-2623.

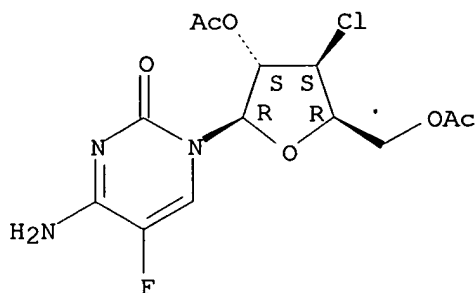
IT 74580-86-2P 74595-07-6P 74595-08-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and deacetylation of)

RN 74580-86-2 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-1-(2,5-di-O-acetyl-3-chloro-3-deoxy- $\beta$ -D-xylofuranosyl)-5-fluoro- (9CI) (CA INDEX NAME)

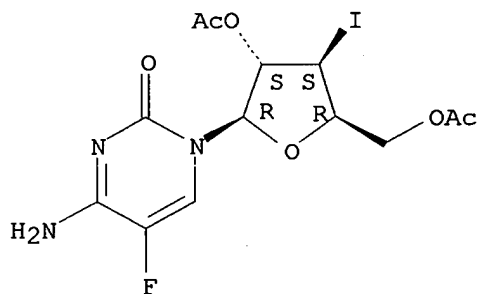
Absolute stereochemistry.



RN 74595-07-6 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-1-(2,5-di-O-acetyl-3-deoxy-3-iodo- $\beta$ -D-xylofuranosyl)-5-fluoro- (9CI) (CA INDEX NAME)

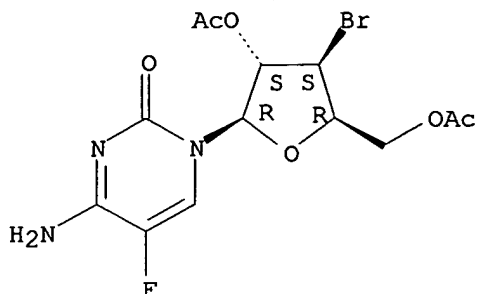
Absolute stereochemistry.



RN 74595-08-7 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-1-(2,5-di-O-acetyl-3-bromo-3-deoxy- $\beta$ -D-xylofuranosyl)-5-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L14 ANSWER 10 OF 24 CAPLUS COPYRIGHT 2003 ACS on STN  
 1980:495597 Document No. 93:95597 5-Substituted 1-(2'-deoxy-2'-substituted- $\beta$ -D-arabinofuranosyl)pyrimidine nucleosides. (Sloan-Kettering Institute for Cancer Research, USA). Jpn. Kokai Tokkyo Koho JP 55049395 19800409 Showa, 20 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1979-127271 19791002.

|    | PATENT NO.        | KIND | DATE     | APPLICATION NO. | DATE     |
|----|-------------------|------|----------|-----------------|----------|
| PI | JP 55049395       | A2   | 19800409 | JP 1979-127271  | 19791002 |
|    | JP 62054315       | B4   | 19871113 |                 |          |
|    | US 4211773        | A    | 19800708 | US 1978-948189  | 19781002 |
|    | AU 7950757        | A1   | 19800417 | AU 1979-50757   | 19790912 |
|    | AU 533135         | B2   | 19831103 |                 |          |
|    | CA 1131626        | A1   | 19820914 | CA 1979-336359  | 19790926 |
|    | EP 10205          | A1   | 19800430 | EP 1979-103673  | 19790927 |
|    | EP 10205          | B1   | 19830504 |                 |          |
|    | R: DE, FR, GB, IT |      |          |                 |          |
|    | ES 484626         | A1   | 19800516 | ES 1979-484626  | 19791001 |
| IT | HU 24888          | O    | 19830428 | HU 1979-SO1262  | 19791001 |
|    | HU 182597         | B    | 19840228 |                 |          |

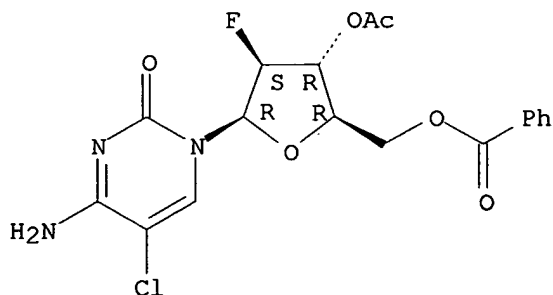
IT **69124-00-1P**

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)

RN 69124-00-1 CAPLUS

CN 2(1H)-Pyrimidinone, 1-(3-O-acetyl-5-O-benzoyl-2-deoxy-2-fluoro- $\beta$ -D-arabinofuranosyl)-4-amino-5-chloro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L14 ANSWER 11 OF 24 CAPLUS COPYRIGHT 2003 ACS on STN  
 1981:587586 Document No. 95:187586 A simplified method for the synthesis of

pyrimidine nucleosides. Matsuda, A.; Kurasawa, Y.; Watanabe, K. A. (Grad. Sch. Med. Sci., Cornell Univ., New York, NY, 10 021, USA). *Synthesis* (9), 748 (English) 1981. CODEN: SYNTBF. ISSN: 0039-7881.

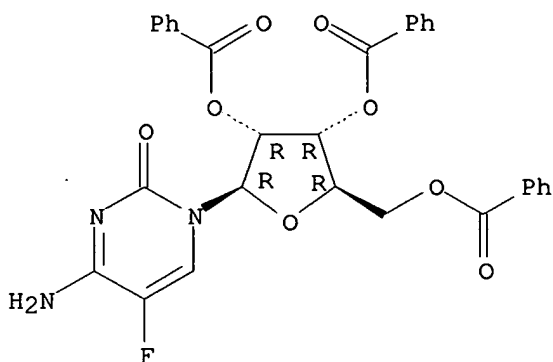
IT **53294-73-8P**

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 53294-73-8 CAPLUS

CN Cytidine, 5-fluoro-, 2',3',5'-tribenzoate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L14 ANSWER 12 OF 24 CAPLUS COPYRIGHT 2003 ACS on STN

1983:612873 Document No. 99:212873 Facile synthesis of 5-fluorocytidine. Sharma, Minoti; Alderfer, James L. (Dep. Biophys., Roswell Park Mem. Inst., Buffalo, NY, 14262, USA). *Nucleosides & Nucleotides*, 2(2), 189-91 (English) 1983. CODEN: NUNUD5. ISSN: 0732-8311.

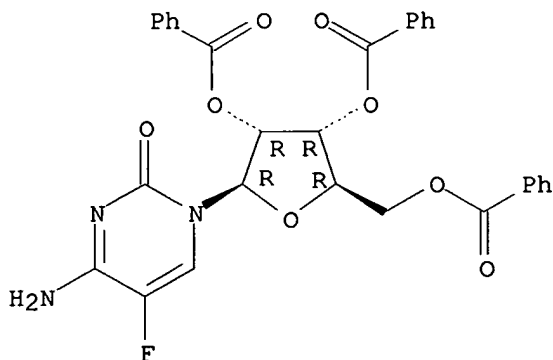
IT **53294-73-8P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation and debenzoylation of)

RN 53294-73-8 CAPLUS

CN Cytidine, 5-fluoro-, 2',3',5'-tribenzoate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L14 ANSWER 13 OF 24 CAPLUS COPYRIGHT 2003 ACS on STN

1983:558769 Document No. 99:158769 An improved synthesis of 2'-fluoro-2'-deoxyarabinofuranosyl pyrimidine nucleosides. Chun, Moon Woo (Coll. Pharm., Seoul Natl. Univ., Seoul, 151, S. Korea). Archives of Pharmacal Research, 6(1), 79-81 (English) 1983. CODEN: APHRDQ. ISSN: 0253-6269.

IT 69124-01-2P 69174-28-3P 83967-00-4P

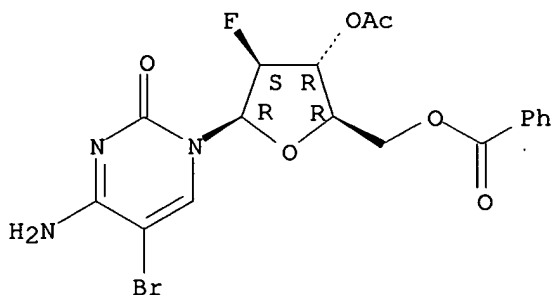
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and deacylation of)

RN 69124-01-2 CAPLUS

CN 2(1H)-Pyrimidinone, 1-(3-O-acetyl-5-O-benzoyl-2-deoxy-2-fluoro-β-D-arabinofuranosyl)-4-amino-5-bromo- (9CI) (CA INDEX NAME)

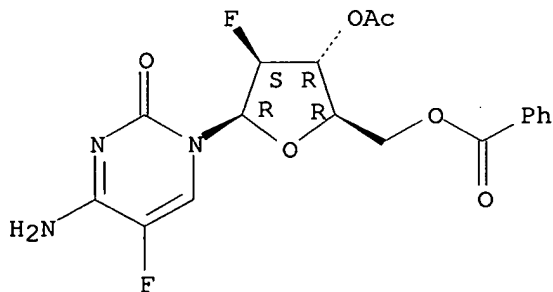
Absolute stereochemistry.



RN 69174-28-3 CAPLUS

CN 2(1H)-Pyrimidinone, 1-(3-O-acetyl-5-O-benzoyl-2-deoxy-2-fluoro-β-D-arabinofuranosyl)-4-amino-5-fluoro- (9CI) (CA INDEX NAME)

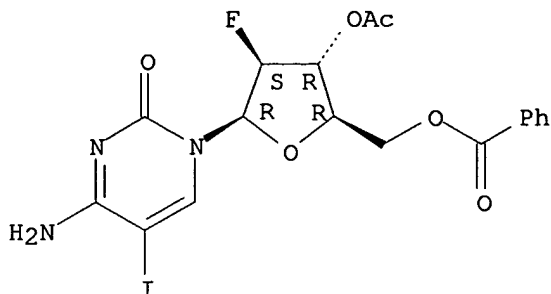
Absolute stereochemistry.



RN 83967-00-4 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-1-(3-O-acetyl-5-O-benzoyl-2-deoxy-2-fluoro-β-D-arabinofuranosyl)-5-iodo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L14 ANSWER 14 OF 24 CAPLUS COPYRIGHT 2003 ACS on STN

1983:46449 Document No. 98:46449 Nucleosides. 123. Synthesis of antiviral nucleosides: 5-substituted 1-(2-deoxy-2-halogeno- $\beta$ -D-arabinofuranosyl)cytosines and -uracils. Some structure-activity relationships. Watanabe, Kyoichi A.; Su, Tsann Long; Klein, Robert S.; Chu, Chung K.; Matsuda, Akira; Chun, Moon Woo; Lopez, Carlos; Fox, Jack J. (Grad. Sch. Med. Sci., Cornell Univ., New York, NY, 10021, USA). Journal of Medicinal Chemistry, 26(2), 152-6 (English) 1983. CODEN: JMCMAR. ISSN: 0022-2623.

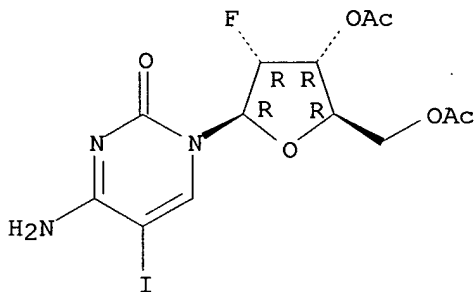
IT **83966-99-8P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and deblocking and iodination of)

RN 83966-99-8 CAPLUS

CN Cytidine, 2'-deoxy-2'-fluoro-5-iodo-, 3',5'-diacetate, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● HCl

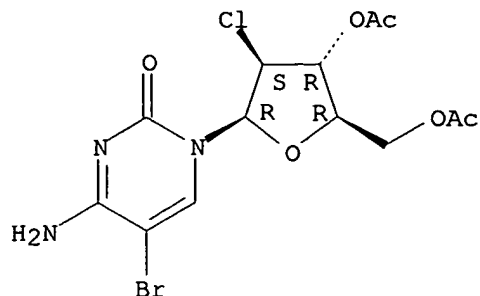
IT **83966-88-5P 83966-91-0P 83967-00-4P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and deprotection of)

RN 83966-88-5 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-5-bromo-1-(3,5-di-O-acetyl-2-chloro-2-deoxy- $\beta$ -D-arabinofuranosyl)- (9CI) (CA INDEX NAME)

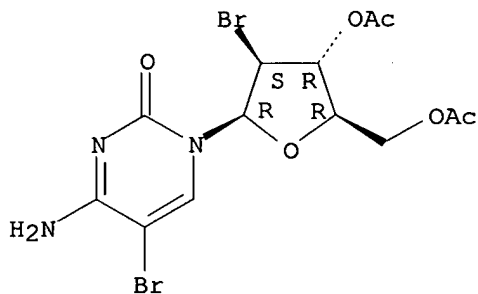
Absolute stereochemistry.



RN 83966-91-0 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-5-bromo-1-(3,5-di-O-acetyl-2-bromo-2-deoxy- $\beta$ -D-arabinofuranosyl)-(9CI) (CA INDEX NAME)

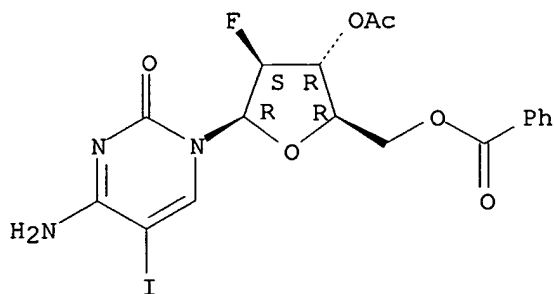
Absolute stereochemistry.



RN 83967-00-4 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-1-(3-O-acetyl-5-O-benzoyl-2-deoxy-2-fluoro- $\beta$ -D-arabinofuranosyl)-5-iodo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L14 ANSWER 15 OF 24 CAPLUS COPYRIGHT 2003 ACS on STN

1984:552247 Document No. 101:152247 2'-Fluoro-5-iodo-1- $\beta$ -D-arabinofuranosylcytosine [FIAC]: synthesis and mode of anti-herpes virus activity. Lopez, Carlos; Chou, Ting Chao; Watanabe, Kyoichi A.; Fox, Jack J. (Sloan-Kettering Inst. Cancer Res., Mem. Sloan-Kettering Cancer Cent., New York, NY, 10021, USA). Developments in Molecular Virology, 4(Antiviral Drugs Interferon: Mol. Basis Their Act.), 105-15 (English) 1984. CODEN: DMVIDD. ISSN: 0167-8256.

IT **83967-00-4P**

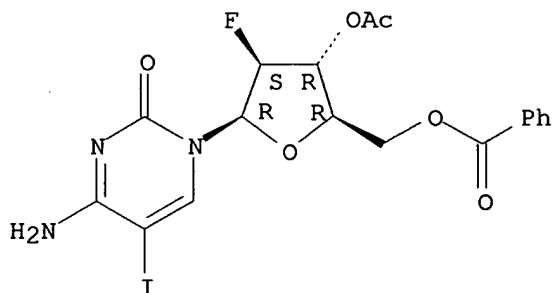
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and deprotection of)

RN 83967-00-4 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-1-(3-O-acetyl-5-O-benzoyl-2-deoxy-2-fluoro- $\beta$ -D-arabinofuranosyl)-5-iodo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=&gt; d 114 16-24 cbib pi hitstr

L14 ANSWER 16 OF 24 CAPLUS COPYRIGHT 2003 ACS on STN

1987:113538 Document No. 106:113538 Anti-herpes virus compositions containing 5-substituted (1,2'-deoxy-2'-substituted  $\beta$ -D-arabinofuranosyl)pyrimidine nucleosides. Lopez, Carlos; Watanabe, Kyoichi A.; Reichman, Uri; Fox, Jack J. (Sloan-Kettering Institute for Cancer Research, USA). U.S. US 4594339 A 19860610, 11 p. Cont. of U.S. Ser. No. 366,104, abandoned. (English). CODEN: USXXAM. APPLICATION: US 1984-621875 19840618. PRIORITY: US 1982-366104 19820406.

| PATENT NO. | KIND | DATE     | APPLICATION NO. | DATE     |
|------------|------|----------|-----------------|----------|
| US 4594339 | A    | 19860610 | US 1984-621875  | 19840618 |

IT **69174-28-3**

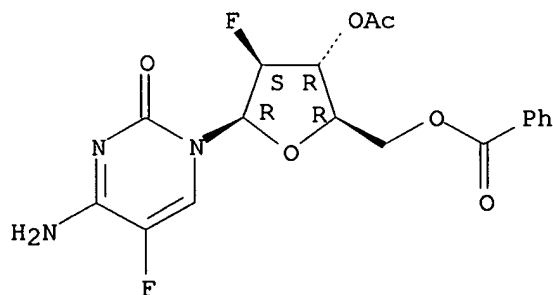
RL: PROC (Process)

(conversion of, to uracil derivative)

RN 69174-28-3 CAPLUS

CN 2(1H)-Pyrimidinone, 1-(3-O-acetyl-5-O-benzoyl-2-deoxy-2-fluoro- $\beta$ -D-arabinofuranosyl)-4-amino-5-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.





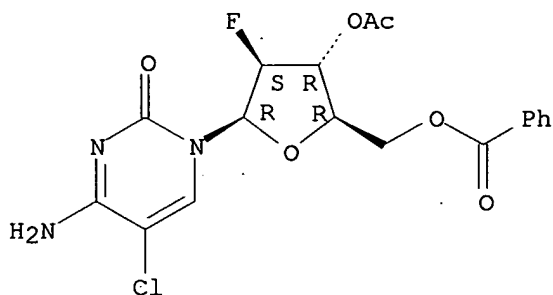
IT 69124-00-1P 69124-01-2P 83966-88-5P  
 83966-91-0P 83967-00-4P 107232-36-0P  
 107232-37-1P 107232-38-2P 107232-40-6P  
 107232-41-7P 107249-39-8P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and antiherpes virus activity of)

RN 69124-00-1 CAPLUS

CN 2(1H)-Pyrimidinone, 1-(3-O-acetyl-5-O-benzoyl-2-deoxy-2-fluoro-β-D-arabinofuranosyl)-4-amino-5-chloro- (9CI) (CA INDEX NAME)

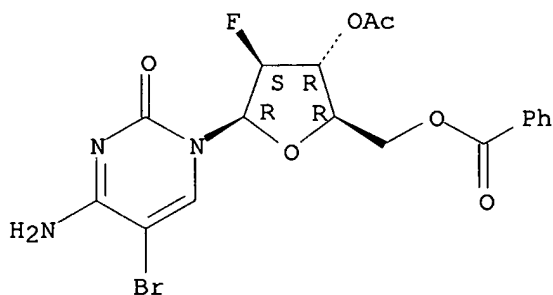
Absolute stereochemistry.



RN 69124-01-2 CAPLUS

CN 2(1H)-Pyrimidinone, 1-(3-O-acetyl-5-O-benzoyl-2-deoxy-2-fluoro-β-D-arabinofuranosyl)-4-amino-5-bromo- (9CI) (CA INDEX NAME)

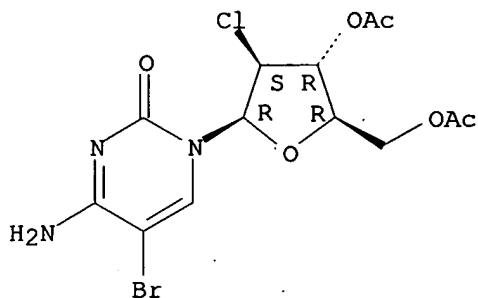
Absolute stereochemistry.



RN 83966-88-5 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-5-bromo-1-(3,5-di-O-acetyl-2-chloro-2-deoxy-β-D-arabinofuranosyl)- (9CI) (CA INDEX NAME)

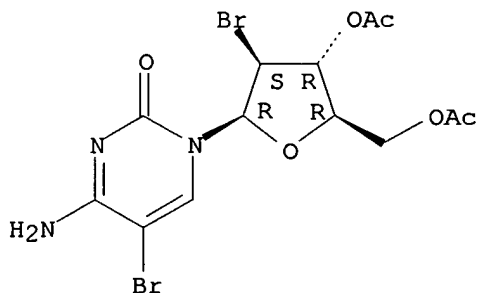
Absolute stereochemistry.



RN 83966-91-0 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-5-bromo-1-(3,5-di-O-acetyl-2-bromo-2-deoxy- $\beta$ -D-arabinofuranosyl)-(9CI) (CA INDEX NAME)

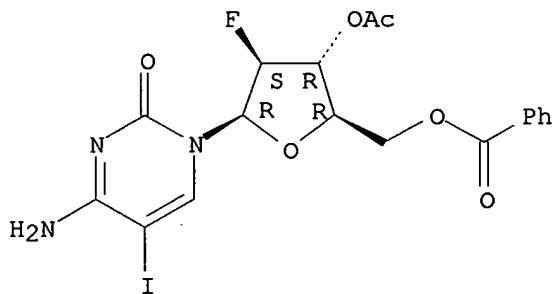
Absolute stereochemistry.



RN 83967-00-4 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-1-(3-O-acetyl-5-O-benzoyl-2-deoxy-2-fluoro- $\beta$ -D-arabinofuranosyl)-5-iodo- (9CI) (CA INDEX NAME)

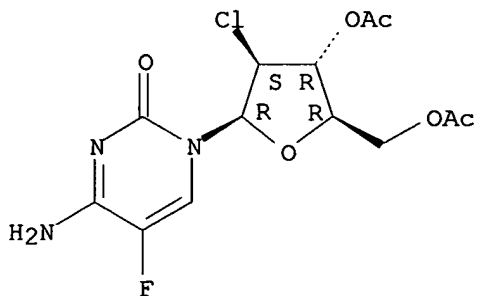
Absolute stereochemistry.



RN 107232-36-0 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-1-(3,5-di-O-acetyl-2-chloro-2-deoxy- $\beta$ -D-arabinofuranosyl)-5-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

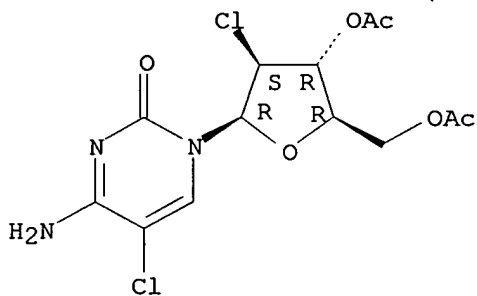


25

RN 107232-37-1 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-5-chloro-1-(3,5-di-O-acetyl-2-chloro-2-deoxy-beta-D-arabinofuranosyl)- (9CI) (CA INDEX NAME)

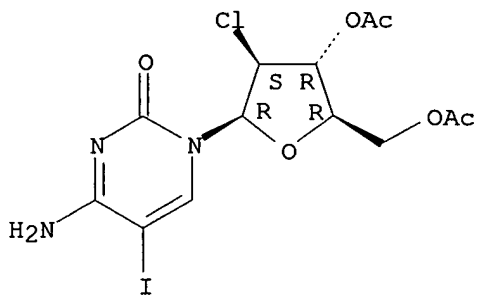
Absolute stereochemistry.



RN 107232-38-2 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-1-(3,5-di-O-acetyl-2-chloro-2-deoxy-beta-D-arabinofuranosyl)-5-iodo- (9CI) (CA INDEX NAME)

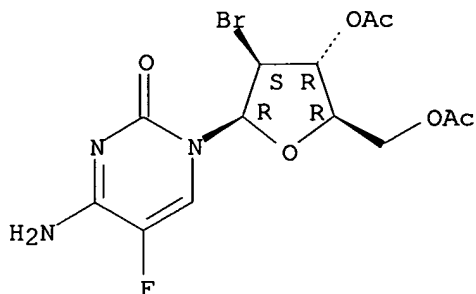
Absolute stereochemistry.



RN 107232-40-6 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-1-(3,5-di-O-acetyl-2-bromo-2-deoxy-beta-D-arabinofuranosyl)-5-fluoro- (9CI) (CA INDEX NAME)

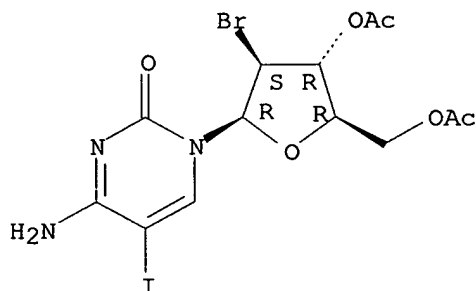
Absolute stereochemistry.



RN 107232-41-7 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-1-(3,5-di-O-acetyl-2-bromo-2-deoxy- $\beta$ -D-arabinofuranosyl)-5-iodo- (9CI) (CA INDEX NAME)

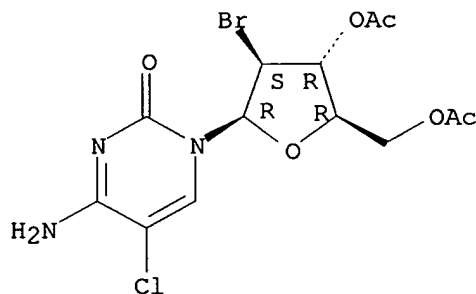
Absolute stereochemistry.



RN 107249-39-8 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-5-chloro-1-(3,5-di-O-acetyl-2-bromo-2-deoxy- $\beta$ -D-arabinofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L14 ANSWER 17 OF 24 CAPLUS COPYRIGHT 2003 ACS on STN

1987:576402 Document No. 107:176402 Acetylenic nucleosides. 4.

1-( $\beta$ -D-Arabinofuranosyl)-5-ethynylcytosine. Improved synthesis and evaluation of biochemical and antiviral properties. Bobek, Miroslav; Kawai, I.; Sharma, R. A.; Grill, S.; Dutschman, G.; Cheng, Y. C. (Grace Cancer Drug Cent., Roswell Park Mem. Inst., Buffalo, NY, 14263, USA). Journal of Medicinal Chemistry, 30(11), 2154-7 (English) 1987. CODEN: JMCMAR. ISSN: 0022-2623. OTHER SOURCES: CASREACT 107:176402.

IT **110098-05-0P**

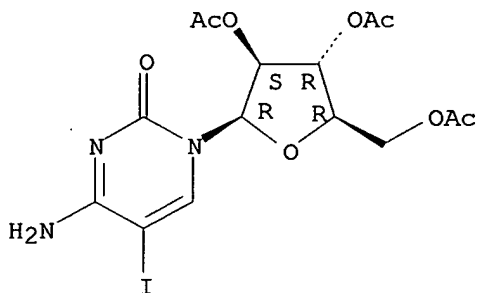
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and coupling of, with (trimethylsilyl)acetylene)

RN 110098-05-0 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-5-iodo-1-(2,3,5-tri-O-acetyl- $\beta$ -D-arabinofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L14 ANSWER 18 OF 24 CAPLUS COPYRIGHT 2003 ACS on STN

1990:497957 Document No. 113:97957 Transformation of uridine derivatives into cytidines via selective amination. Krug, A.; Schmidt, S.; Lekhschas, J.; Lemke, K.; Cech, D. (Sekt. Chem., Humboldt-Univ. Berlin, Berlin, DDR-1040, Ger. Dem. Rep.). Journal fuer Praktische Chemie (Leipzig), 331(5), 835-42 (German) 1989. CODEN: JPCEAO. ISSN: 0021-8383. OTHER SOURCES: CASREACT 113:97957.

IT **128963-10-0P**

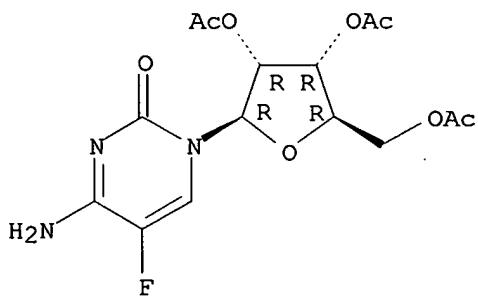
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and deacetylation of)

RN 128963-10-0 CAPLUS

CN Cytidine, 5-fluoro-, 2',3',5'-triacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L14 ANSWER 19 OF 24 CAPLUS COPYRIGHT 2003 ACS on STN

1990:515754 Document No. 113:115754 Synthesis and antiviral activity of monofluoro and difluoro analogs of pyrimidine deoxyribonucleosides against human immunodeficiency virus (HIV-1). Martin, Joseph A.; Bushnell, David J.; Duncan, Ian B.; Dunsdon, Stephen J.; Hall, Michael J.; Machin, Peter J.; Merrett, John H.; Parkes, Kevin E. B.; Roberts, Noel A.; et al. (Res.

Div., Roche Prod. Ltd., Welwyn Garden City/Hertfordshire, AL7 3AY, UK).  
 Journal of Medicinal Chemistry, 33(8), 2137-45 (English) 1990. CODEN:  
 JMCMAR. ISSN: 0022-2623. OTHER SOURCES: CASREACT 113:115754.

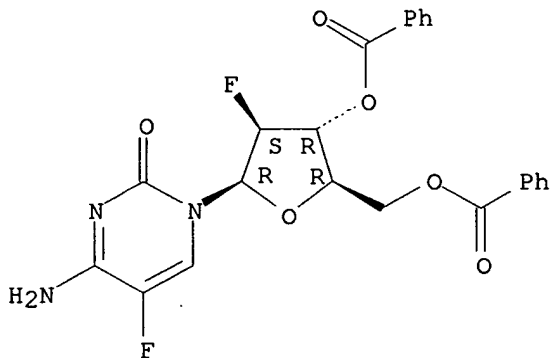
IT **128496-05-9P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (preparation and debenzoylation of)

RN 128496-05-9 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-1-(3,5-di-O-benzoyl-2-deoxy-2-fluoro-β-D-  
 arabinofuranosyl)-5-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L14 ANSWER 20 OF 24 CAPLUS COPYRIGHT 2003 ACS on STN

1997:515726 Document No. 127:190957 A study of 2'-fluoro-5-iodo-ara-C  
 synthesis. Wu, Wengeng; Wang, Erhua (Inst. Medicinal Chemical Industry,  
 China Pharmaceutical Univ., Nanjing, 210009, Peop. Rep. China). Zhongguo  
 Yaoke Daxue Xuebao, 27(12), 705-710 (Chinese) 1996. CODEN: ZHYXE9. ISSN:  
 1000-5048. Publisher: Zhongguo Yaoke Daxue.

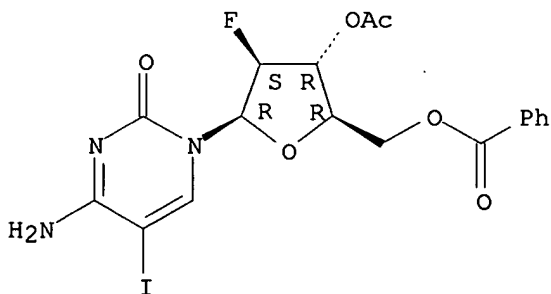
IT **83967-00-4P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (stereoselective preparation of fluoriodoara-C as antiviral agent)

RN 83967-00-4 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-1-(3-O-acetyl-5-O-benzoyl-2-deoxy-2-fluoro-  
 β-D-arabinofuranosyl)-5-iodo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L14 ANSWER 21 OF 24 CAPLUS COPYRIGHT 2003 ACS on STN

1996:354140 Document No. 125:75333 Structure-Activity Relationships of 1-(2-Deoxy-2-fluoro- $\beta$ -L-arabino- furanosyl)pyrimidine Nucleosides as Anti-Hepatitis B Virus Agents. Ma, Tianwei; Pai, S. Balakrishna; Zhu, Yong Lian; Lin, Ju Sheng; Shanmuganathan, Kirupa; Du, Jinfa; Wang, Chunguang; Kim, Hongbum; Newton, M. Gary; et al. (College of Pharmacy, University of Georgia, Athens, GA, 30602, USA). Journal of Medicinal Chemistry, 39(14), 2835-2843 (English) 1996. CODEN: JMCMAR. ISSN: 0022-2623. Publisher: American Chemical Society.

IT 178687-95-1P 178687-97-3P 178687-99-5P

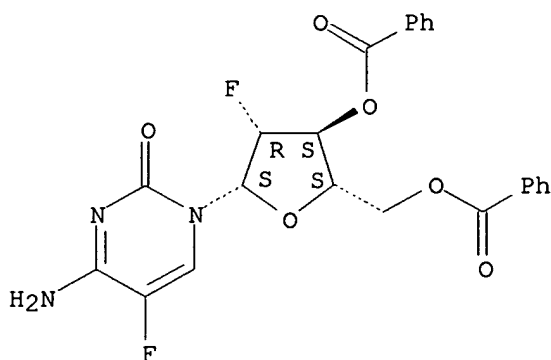
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; structure-activity relationships of 1-(2-deoxy-2-fluoro- $\beta$ -L-arabino- furanosyl)pyrimidine nucleosides as anti-hepatitis B virus agents)

RN 178687-95-1 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-1-(3,5-di-O-benzoyl-2-deoxy-2-fluoro- $\beta$ -L-arabinofuranosyl)-5-fluoro- (9CI) (CA INDEX NAME)

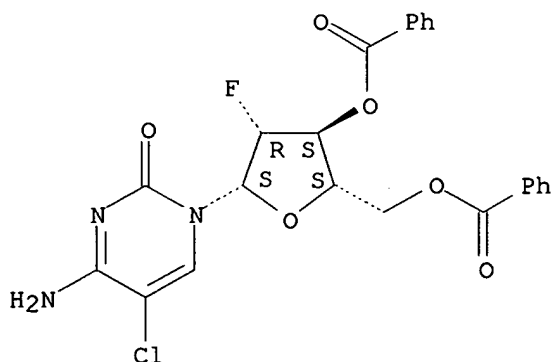
Absolute stereochemistry.



RN 178687-97-3 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-5-chloro-1-(3,5-di-O-benzoyl-2-deoxy-2-fluoro- $\beta$ -L-arabinofuranosyl)- (9CI) (CA INDEX NAME)

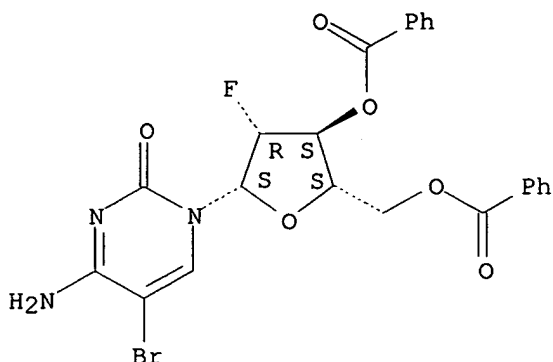
Absolute stereochemistry.



RN 178687-99-5 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-5-bromo-1-(3,5-di-O-benzoyl-2-deoxy-2-fluoro- $\beta$ -L-arabinofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L14 ANSWER 22 OF 24 CAPLUS COPYRIGHT 2003 ACS on STN

2000:28934 Document No. 132:180800 Synthesis, cytotoxic effect and antiviral activity of 1-( $\beta$ -D-arabinofuranosyl)-5-bromo-N4-substituted cytosine and 1-( $\beta$ -D-arabinofuranosyl)-5-bromo-4-methoxypyrimidin-2(1H)-one derivatives. Saladino, Raffaele; Mezzetti, Maurizio; Mincione, Enrico; Palamara, Anna Teresa; Savini, Patrizia; Marini, Stefano (Dipartimento Agrochimico Agrobiologico, Universita della Tuscia, Viterbo, 01100, Italy). Nucleosides & Nucleotides, 18(11 & 12), 2499-2510 (English) 1999. CODEN: NUNUD5. ISSN: 0732-8311. Publisher: Marcel Dekker, Inc..

IT 51327-65-2P

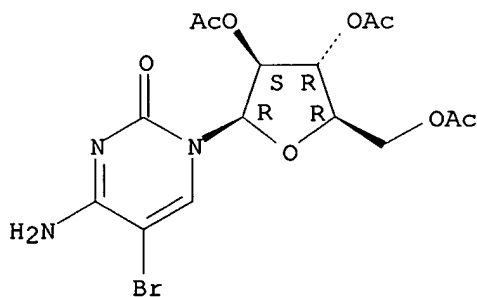
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(synthesis, cytotoxic effect and antiviral activity of (arabinofuranosyl)bromo-N-substituted cytosine and (arabinofuranosyl)bromo-methoxypyrimidinone derivs.)

RN 51327-65-2 CAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-5-bromo-1-(2,3,5-tri-O-acetyl- $\beta$ -D-arabinofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L14 ANSWER 23 OF 24 CAPLUS COPYRIGHT 2003 ACS on STN

1999:120304 Document No. 130:223527 Synthesis and Biological Evaluation of 2',3'-Didehydro-2',3'-dideoxy-5- fluorocytidine (D4FC) Analogs: Discovery



of Carbocyclic Nucleoside Triphosphates with Potent Inhibitory Activity against HIV-1 Reverse Transcriptase. Shi, Junxing; McAtee, J. Jeffrey; Wirtz, Susan Schlueter; Tharnish, Phillip; Juodawlkis, Amy; Liotta, Dennis C.; Schinazi, Raymond F. (Departments of Pediatrics and Chemistry, Emory University, Atlanta, GA, 30322, USA). Journal of Medicinal Chemistry, 42(5), 859-867 (English) 1999. CODEN: JMCMAR. ISSN: 0022-2623. Publisher: American Chemical Society.

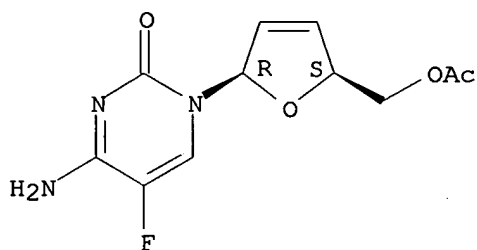
IT 221156-23-6P 221156-50-9P 221156-51-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
(preparation and biol. evaluation of didehydrodideoxy fluorocytidine analogs: discovery of carbocyclic nucleoside triphosphates with potent inhibitory activity against HIV-1 reverse transcriptase)

RN 221156-23-6 CAPLUS

CN Cytidine, 2',3'-didehydro-2',3'-dideoxy-5-fluoro-, 5'-acetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

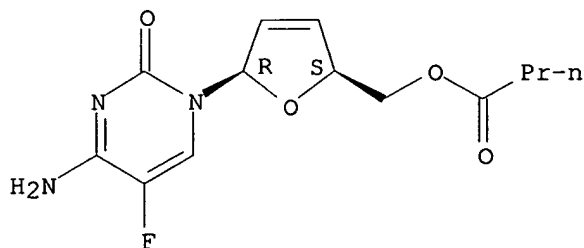


27

RN 221156-50-9 CAPLUS

CN Cytidine, 2',3'-didehydro-2',3'-dideoxy-5-fluoro-, 5'-butanoate (9CI) (CA INDEX NAME)

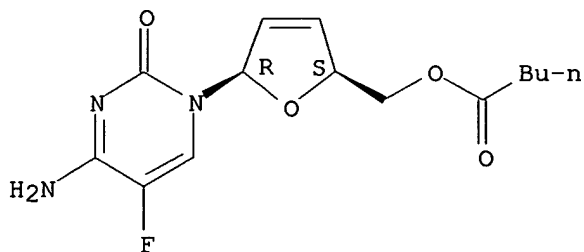
Absolute stereochemistry.



RN 221156-51-0 CAPLUS

CN Cytidine, 2',3'-didehydro-2',3'-dideoxy-5-fluoro-, 5'-pentanoate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

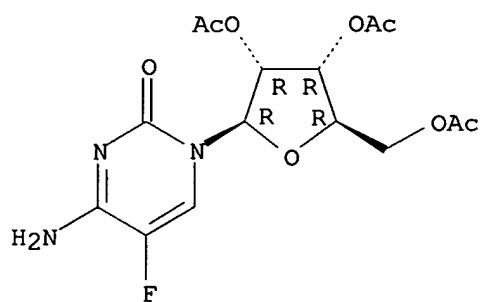


L14 ANSWER 24 OF 24 CAPLUS COPYRIGHT 2003 ACS on STN

2002:122732 Document No. 136:167637 5'-Deoxy-N-(substituted oxycarbonyl)-5-fluorocytosine and derivatives thereof, method of preparing same, and anticancer composition comprising same as active ingredients. Kim, Kwan-Hee; Kim, Youn-Chul; Kim, Ji-Young; Lee, Kyeong-Ho; Noh, Moon-Jong; Park, Young-Seok; Cho, Sung-Min; Park, Ho-Jin (Kolon Industries, Inc., S. Korea). PCT Int. Appl. WO 2002011668 A2 20020214, 41 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2001-KR1351 20010808. PRIORITY: KR 2000-46179 20000809; KR 2001-44193 20010723.

| PATENT NO.       | KIND   | DATE     | APPLICATION NO.  | DATE     |
|------------------|--------|----------|--|----------|
| PI WO 2002011668 | A2     | 20020214 | WO 2001-KR1351   | 20010808 |
| WO 2002011668    | A3     | 20020418 |  |          |
| W:               |        |          | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM |          |
| RW:              |        |          | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG   |          |
| AU 2001078804    | A5     | 20020218 | AU 2001-78804  | 20010808 |
| EP 1311524       | A2     | 20030521 | EP 2001-957021   | 20010808 |
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| US 2003166606    | A1     | 20030904 | US 2003-333984   | 20030126 |
| IT 128963-10-0P  |        |          |  |          |
| RL:              |        |          | IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  |          |
|                  |        |          | (preparation of deoxy(substituted oxycarbonyl)-5-fluorocytosine nucleosides as antitumor agents)   |          |
| RN 128963-10-0   | CAPLUS |          |  |          |
| CN               |        |          | Cytidine, 5-fluoro-, 2',3',5'-triacetate (9CI) (CA INDEX NAME)   |          |

Absolute stereochemistry.



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ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:.

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

87.40

385.93

STN INTERNATIONAL LOGOFF AT 09:18:23 ON 24 NOV 2003